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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,897	11/26/2003	Michael A. Gallu	81078764 / FMC 1646 PUS	6261	
28395 75	90 08/12/2005		EXAMINER		
BROOKS KU	SHMAN P.C./FGTL		GANDHI, JAYPRAKASH N		
22ND FLOOR	ENIEK		ART UNIT	PAPER NUMBER	
SOUTHFIELD,	, MI 48075-1238		2125		
			DATE MAIL ED: 09/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A tinetian No	Applicant/a)			
		Application No.	Applicant(s) GALLU ET AL.			
Office Action Summary		10/723,897				
	omec Action Gammary	Examiner	Art Unit			
	The MAIL INC DATE of this communicati	Jayprakash N. Gandhi	2125			
Period fo	 The MAILING DATE of this communication Reply 	on appears on the cover sheet with	n the correspondence address —			
THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA is isons of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutor reto reply within the set or extended period for reply will, the epty received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a restion. ys, a reply within the statutory minimum of thirty y period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication NDONED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed or	n <u>06 June 2005</u> .				
2a)⊠	This action is FINAL . 2b)[☐ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-20</u> is/are pending in the appli 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	rithdrawn from consideration.				
• •	on Papers					
	The specification is objected to by the Ex					
10)	The drawing(s) filed on is/are: a)[·	<u>-</u>			
	Applicant may not request that any objection Replacement drawing sheet(s) including the	• • • • • • • • • • • • • • • • • • • •	• •	\		
11)	The oath or declaration is objected to by			<i>)</i> .		
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for the All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International see the attached detailed Office action for	uments have been received. uments have been received in Ap ne priority documents have been r Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment						
2) Notice Notice Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	Paper No(s)	Immary (PTO-413) /Mail Date ormal Patent Application (PTO-152)			

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Tsuyama et al. (U. S. Patent 5,596,712).

Regarding claims 1 and 13, Tsuyama discloses all the claimed limitation of a computer-implemented method for automatically isolating suspect items, as shown below in the "ABSTRACT".

A computer-implemented method and system for diagnosing and system for diagnosing and analyzing fault information of a product is carried out by (a) creating a fault tree representing causal relations between faults and causes thereof base on information of past faults and information concerning the structure and characteristics of the product, and storing the fault tree in a storage unit, the fault tree having branches allocated with weighting coefficients; (b) inputting new fault information of the product into the computer; (c) searching the fault tree in accordance with the weighting coefficients based on the fault information stored in the storage unit to thereby determine the cause of the fault; (d) generating and outputting information concerning an adjustment or repair of the product suffering from the fault based on the determined cause of the fault as well as the information concerning the structure and the characteristics of the product; (e) supplying information concerning the timing of the occurrence of the fault, symptoms appearing in the fault, the cause of the fault and the adjustment and repair data to a host computer through a data collecting station to thereby construct a database for the fault information; and (f) the quality of the product based on all or a part of information of the database

Regarding claims 2-12 and 14-20, Tsuyama discloses under the "SUMMARY OF THE INVENTION" the claimed invention limitatations.

- (9) A method for diagnosing and analyzing fault information according to the invention comprises the following steps of:
- (10) a) creating a fault tree representing causal relations between faults and causes thereof in the past in a tree structure on the basis of information concerning the structure and characteristics of the product and storing the fault tree in a storage unit, wherein the branches of the fault tree are

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allocated with weighting coefficients, respectively;

- (11) b) inputting new fault information of the product into the computer through a terminal apparatus capable of communicating with the computer;
- (12) c) responding to the input of the new fault information for searching for the fault tree in accordance with the weighting coefficients on the basis of the fault information stored in the storage unit to thereby determine the cause of the fault of the product;
- (13) d) generating by the computer the information concerning adjustment or repair of the product suffering from the fault on the basis of the cause of the fault as well as the information concerning the structure and the characteristics of the product and outputting the information concerning the adjustment or the repair;
- (14) e) supplying the information concerning the date of occurrence of the fault of the product, symptoms appearing in the fault, the cause of the fault and the data of the adjustment and the repair to a host computer through a data collecting station to thereby provide a database for the fault information; and
- (15) f) statistically analyzing by the computer the quality of the product on the basis of all or a part of information of the database.
- (16) A system for diagnosing and analyzing the fault information of products with the aid of a computer comprises the following units:
- (17) a) a storage unit for storing a fault tree representing past causal relations between faults and causes thereof in a tree structure together with information concerning structure and characteristics of the product, wherein branches of the fault tree are allocated with weighting coefficients, respectively;
- (18) b) a terminal apparatus capable of communicating with the computer for inputting new fault information of the product;
- (19) c) means responsive to the input of the new fault information for searching for the fault tree in accordance with the weighting coefficients and on the basis of the fault information stored in the storage means to thereby determine the cause of the fault of the product;
- (20) d) a unit for generating information concerning adjustment or repair of the product suffering from the fault on the basis of the cause of the fault as well as information concerning the structure and the characteristics of the product and outputting the information concerning the adjustment or the repair;
- (21) e) a unit for supplying information concerning the date of occurrence of the fault of the product, symptoms appearing in the fault, the cause of the fault and the data concerning the adjustment and repair to a host computer through a data collecting station to thereby provide a database for the fault information; and
- (22) f) a unit for statistically analyzing the quality of the product on the basis of all or a part of the information stored in the database.

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Response to Arguments

2. Applicant's arguments filed June 06, 2005 have been fully considered but they are not persuasive.

In response to applicant's argument that, Tsuyama does not disclose the limitation of "automatically detecting an identifier for an item in a manufacturing or assembly process" the examiner directs the applicant's attention to the start of ABSTRACT (A computer-implemented ---) of Tsuyama, which is automatic.

In response to applicant's argument that, Tsuyama does not disclose, "comparing the detected item identifier with one or more suspect item definition".

Tsuyama discloses of having information of past faults (suspect) and comparing with the product.

In response to applicant's argument that, Tsuyama does not disclose "if the detected item identifier falls within one or more of the suspect item definitions, automatically isolating the item in a manufacturing or assembly process". The ABSTRACT (Item (d)) of Tsuyama, clearly disclose, "generating and outputting information concerning an adjustment or repair of the product suffering from the fault based on the determined cause of the fault as well as the information concerning the structure and the characteristics of the product".

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayprakash N. Gandhi whose telephone number is 571-272-3740. The examiner can normally be reached on 6:30-5:00 (Mon. - Thu.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on 571-272-3749. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jayprakash N Gandhi Primary Examiner Art Unit 2125